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FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER			LU, ZHIYU	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/607,235	TANAKA, SHINGO			
Office Action Summary	Examiner	Art Unit			
	Zhiyu Lu	2618			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 27 Ju					
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3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Serion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D				
Notice of Dransperson's Patent Drawing Review (PTO-946) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)			

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DETAILED ACTION

Claim Objections

1. Claims 13 and 17 are objected to because of the following informalities:

On lines 3, 5, and 9 of page 37 of claim 13, replace "is input" with ~is inputted~ to correct grammatical errors.

On lines 8, 10, and 14 of page 38 of claim 17, replace "is input" with ~is inputted~ to correct grammatical errors.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1, 13, and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 1, 13, and 17, a claim limitation such as "a second transmission of the command when the second instruction is input and the data fails to be transmitted" is made. Although it is disclosed in the Abstract and Brief summary of the Specification, it does not match what is disclosed in Detailed Description of the Specification. It is disclosed in the Detailed Description that a second transmission of the command when the second instruction is inputted. In the

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Detailed Description, data transmission is never failed but interrupted when a command transmission is inputted.

For examining purpose, the Examiner ignores the limitation of "and the transmission unit fails to transmit the data" in claims 1, 13, and 17.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 3, 8-9, 13, 15, 17 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Mochizuki (JP09-190306).

Regarding claim 1, Mochizuki anticipates a transmission apparatus (100 of Fig. 1) comprising:

a transmission unit (150 of Fig. 2) configured to transmit one of data and a command; an
input unit (131 of Fig. 1) configured to input one of a first instruction to transmit the data
and a second instruction to transmit the command; a first control unit (112a of Fig. 2)
configured to control the transmission unit to start a first transmission of the data when
the input unit inputs the first instruction; and a second control unit (112b of Fig. 2)
configured to control the transmission unit to start a second transmission of the command
when the input unit inputs the second instruction, the second control unit also controlling
the transmission unit to interrupt the first transmission and start the second transmission

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when the input unit inputs the second instruction and the transmission unit transmits the data (Figs. 1-5, paragraphs 0031-0048).

In the cited paragraphs, Mochizuki discloses that control command has a higher priority over data in transmission unit. In process, data from image data generation section (112a of Fig. 2) has to pass spooler field (113 of Fig. 2) before entering transmission unit (150 of Fig. 2) while control command from control section (112b of Fig. 2) direct entering transmission unit, which makes control command is processed faster than image data. Also, not only higher transmission priority is given to command transmission unit over data in transmission unit (150 of Fig. 2), but control section also sends command to hold data in spooler filed (paragraph 0043) at the same time. Thus, input of second transmission of command transmission interrupts first transmission of data transmission (paragraph 0038).

Regarding claim 13, Mochizuki anticipates a transmission method comprising:

transmitting one of data and a command; inputting one of a first instruction to transmit the data and a second instruction to transmit the command; starting a first transmission of the data when the first instruction is inputted; start a second transmission of the command when the second instruction is inputted; and interrupting the first transmission and starting the second transmission when the second instruction is inputted and the data is transmitted (Figs. 1-5, paragraphs 0031-0048).

As considering explanation applied to claim 1 above, method of claim 13 is anticipated.

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Regarding claim 17, Mochizuki anticipates a computer program product (110 of Fig. 1) configured to store program instructions for execution on a computer system enabling the computer system to perform:

transmitting one of data and a command; inputting one of a first instruction to transmit the data and a second instruction to transmit the command; starting a first transmission of the data when the first instruction is inputted; starting a second transmission of the command when the second instruction is inputted; and interrupting the first transmission and starting the second transmission when the second instruction is inputted and the data is transmitted (Figs. 1-5, paragraphs 0031-0048).

As considering explanation applied to claim 1 above, computer program of claim 17 is anticipated.

Regarding claims 3, 15, and 19, Mochizuki anticipates the limitation of claim 1.

Mochizuki also anticipates the limitation of further comprising a third control unit configured to control the transmission unit to sequentially transmit a plurality of data items of the data (paragraphs 0002-0004).

Regarding claim 8, Mochizuki anticipates the limitation of claim 1.

Mochizuki also anticipates the limitation of the data being image data (abstract).

Regarding claim 9, Mochizuki anticipates the limitation of claim 8.

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Mochizuki also anticipates the limitation of the input unit inputs designation of to-be-transmitted image data of the image data (inherent), where printer driver (112 of Fig. 1) is initiated by application (111 of Fig. 1).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2, 4-6, 14, 16, 18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mochizuki (JP09-190306) in view of Kondo et al. (JP10-098605).

 Regarding claims 2, 14, and 18, Mochizuki teaches the limitations of claims 1, 13, and 17.

 But, Mochizuki fails to teach the limitation of further comprising a third control unit configured to control the transmission unit to resume the first transmission interrupted by the second control unit, the first transmission interrupted being restarted after the command has been transmitted.

 Kondo et al. teaches the limitation of further comprising a third control unit configured to control the transmission unit to resume the first transmission interrupted by the second control unit, the first transmission interrupted being restarted after the command has been transmitted (Fig. 4, paragraphs 0033-0034).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate resuming previous transmission after interruption is gone taught by

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Kondo et al. into the apparatus, method, and program of Mochizuki, in order to automatically complete unfinished transmission.

Regarding claims 4, 16, and 20, Mochizuki teaches the limitations of claims 1, 13, and 17.

But, Mochizuki fails to teach the limitation of when the input unit inputs the second instruction and the transmission unit transmits the data, the second control unit determines whether or not the first transmission should be interrupted, the second control unit controlling the transmission unit to start the second transmission after the first transmission is completed if the second control unit determines that the first transmission should be uninterrupted.

Kondo et al. teach the limitation of when the input unit inputs the second instruction and the transmission unit transmits the data, the second control unit determines whether or not the first transmission should be interrupted, the second control unit controlling the transmission unit to start the second transmission after the first transmission is completed if the second control unit determines that the first transmission should be uninterrupted (Fig. 4, paragraphs 31-32).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate means to determine whether the first transmission should be interrupted taught by Kondo et al. into the apparatus, method, and program of Mochizuki, in order to

Regarding claim 5, Mochizuki and Kondo et al. the limitiaton of claim 4.

determine transmission priority.

Kondo et al. also teach the limitation of when the input unit inputs the second instruction and the transmission unit transmits the data, the second control unit determines whether or not the first

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transmission should be interrupted, the second control unit determining that the first transmission should be interrupted if a value obtained by dividing an amount of transmitted part of the data by an entire amount of the data is less than a threshold value, the second control unit also determining that the first transmission should be uninterrupted if the value obtained is not less than the threshold value (paragraph 0052).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate means to determine interruption based on transmitted percentage taught by Kondo et al. into the apparatus of Mochizuki, in order to utilize efficient priority transmission on percentage scale.

Regarding claim 6, Mochizuki and Kondo et al. teach the limitation of claim 4.

Kondo et al. also teach the limitation of when the input unit inputs the second instruction and the transmission unit transmits the data, the second control unit determines whether or not the first transmission should be interrupted, the second control unit determining that the first transmission should be interrupted if an estimated period of time for completing the first transmission is not less than a threshold value, the second control unit also determining that the first transmission should be uninterrupted if the estimated period is less than the threshold value (Fig. 5, paragraphs 0035-0042).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate means to determine interruption based on remaining transmission time taught by Kondo et al. into the apparatus of Mochizuki, in order to utilize efficient priority transmission on time scale.

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5. Claims 7 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Mochizuki (JP09-190306) in view of Yamaguchi et al. (US2002/0101443).

Regarding claim 7, Mochizuki teaches the limitation of claim 1.

But, Mochizuki fails to teach the limitation of the transmission unit utilizes a radio

communication technique called Bluetooth (registered trademark).

Yamaguchi et al. teaches the limitation of the transmission unit utilizes a radio communication

technique called Bluetooth (paragraph 0024).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention

was made to incorporate Bluetooth transmission taught by Yamaguchi et al. into the apparatus of

Mochizuki, in order to utilize wireless communication link.

Regarding claim 10, Mochizuki teaches the limitation of claim 8.

But, Mochizuki fails to teach the limitation of the command includes an image display command

used to command the receiving apparatus to display an image of first image data included in the

image data already transmitted to the receiving apparatus.

Yamaguchi et al. teach the limitation of the command includes an image display command used

to command the receiving apparatus to display an image of first image data included in the image

data already transmitted to the receiving apparatus (abstract).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention

was made incorporate commanding display unit to display received image data taught by

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Yamaguchi et al. into the apparatus of Mochizuki, in order to shorten display time at the moment display command is entered.

Regarding claim 11, Mochizuki and Yamaguchi et al. teach the limitation of claim 10.

Yamaguchi et al. also teach the limitation of the input unit designates the first image data to display the image by the image display command when inputting an instruction to transmit the image display command (abstract).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate designating appropriate image to be displayed in the display command taught by Yamaguchi et al. into the apparatus of Mochizuki, in order to command the display unit to display the appointed image.

Regarding claim 12, Mochizuki teaches the limitation of claim 10.

Yamaguchi et al. also teach the limitation of using Bluetooth communication method between the commanding unit and display unit (paragraph 0024), which inherently teaches the limitation of further comprising a transfer unit configured to transfer the image data based on an Initiator function of Remote Display feature incorporated in Basic Imaging Profile of Bluetooth (registered trademark), transmission of the image data, transmission of the image display command and interruption of the transmission of the image data being performed, using a PutImage function incorporated in the Profile, a Remote Display function incorporated in the Profile, and an Abort operation incorporated in Generic Object Exchange Profile, respectively.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate using Bluetooth communication and its profiles taught by Yamaguchi et al. into the apparatus of Mochizuki, in order to efficiently utilize Bluetooth wireless

communication for image data and command transmission.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zhiyu Lu whose telephone number is (571) 272-2837. The examiner can normally be reached on Weekdays: 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571)272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Zhiyu Lu February 15, 2006

NAY MAUNG SUPERVISORY PATENT EXAMINES